

RACU ACTIVATION

1. VERIFY FGB COMMAND STATUS

NOTE

RACU commands sent from orbiter will not work if FGB relay matrix is in **MCC-M** command state (COMMANDING - INH). Crew can follow ground activities using the "If ENA" block below.

CRT

SM 204 FGB

√COMMANDING - INH

2. If COMMANDING - INH

Shuttle ↓ **MCC-H**, "Ready for RACU5(6) Power On."

MCC-H ⇒ **MCC-M**, "Go for RACU5(6) Power On."

RUSSIAN GROUND	<u>AOS</u>	<u>LOS</u>
Pass 1	___/___:___:___	___/___:___:___
Pass 2	___/___:___:___	___/___:___:___

MCC-M ⇒ **MCC-H** ↑ shuttle, "RACU5(6) Power On at ___/___:___:___ GMT."

3. If COMMANDING - ENA

Shuttle ↓ **MCC-H**, "Ready for RACU5(6) Power On."

MCC-M ⇒ **MCC-H**, "Go for RACU5(6) Power On."

MCC-H ↑ shuttle, "Go for RACU5(6) Power On."

On MCC GO

CRT

SM 204 FGB

PCS

```

FGB: EPS
FGB: EPS

```

FGB: EPS

√FGB Main Bus Voltage 1,2 (two): 28.0 --- 29.0 V

√FGB Batt Voltage 1 --- 6 (six) > 25.5 V

```

*****
* If any FGB Batt Voltage < 25.5 Volts, then *
* notify MCC: "FGB Batteries Low. Wait *
* one orbit for FGB batteries to charge." *
*****

```

CRT

SM 210 NODE

√FRM CTR - incrementing

If FRM CTR - Static

SM 204 FGB

RACU 5(6) PWR ON VIA FGB - ITEM 1 (ITEM 3) EXEC

√RACU 5(6) Power On - *

√Input Amps > 3.0 A

√Output Volts: 121 --- 125 V

√Amps: 0.3 --- 10 A

NOTE

Amperage should be at 0.5 amps at power On.
Amperage could be as high as 10 amps after MDM
initialization (approximately 2.5 minutes), depending
on heater usage.

```
*****
*   If RACU 5(6) OUT AMPS > 10                               *
*       RACU 5(6) PWR OFF VIA FGB - ITEM 5                    *
*       (ITEM 7) EXEC                                           *
*****
```

If FRM CTR - incrementing

SM 204 FGB

RACU 5(6) PWR ON VIA NCS - ITEM 2 (ITEM 4) EXEC

√RACU 5(6) Power On - *

√Input Amps > 3.0 A

√Output Volts: 121 --- 125 V

√Amps: 0.3 --- 10 A

NOTE

Amperage should be at 0.5 amps at power On.
Amperage could be as high as 10 amps after MDM
initialization (approximately 2.5 minutes), depending
on heater usage.

```
*****
*   If RACU 5(6) OUT AMPS > 10                               *
*       RACU 5(6) PWR OFF VIA FGB - ITEM 6                    *
*       (ITEM 8) EXEC                                           *
*****
```

PCS

FGB: EPS

FGB: EPS

sel RACU Details

sel Commands

cmd FGB RACU 5(6) - On Execute

√RACU 5(6) Converter - On

√RACU 5(6) Converter Input Current > 3.0 A

√Output Current: 0.5 --- 10 A

√Voltage: 121 --- 125 V

NOTE

Amperage should be at 0.5 amps at power On.
Amperage could be as high as 10 amps after MDM
initialization (approximately 2.5 minutes), depending
on heater usage.

```
* ***** *
* If RACU 5(6) Output Current > 10 *
* sel Commands *
* cmd FGB RACU 5(6) - Off Execute *
* ***** *
```